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| Review Unit 5-Chapter 8(p 213-251 omit p 234-236), Ch 12 p 353-383 Chem 11- Mrs. Sanford Name: |
| Covalent Bond- |
| Diatomic- |
| List the”lucky seven “ diatomic molecules- |
| Molecular formula- |
| |  |  |  | | --- | --- | --- | | Ionic compound | Covalent compound |  | |  |  | Compare melting points | |  |  | Compare boiling points | |
| Bonding pair of electrons- |
| Lone pair(non bonding electrons)- |
| The number of bonds is- |
| Coordinate covalent bond- |
| Show the resonance structure of ozone- |
| Draw Lewis dot diagrams for the following elements: I, S, P, C, B, Li, Mg |
| Octet rule-exceptions are🡪 |
| Sigma bond- |
| Pi bond- |
| Polar means- |
| Intermolecular forces- |
| Two types of Van der waals forces are 1- 2-  Hydrogen Bonds are- |
| Three types of intermolecular forces arranged from weakest to strongest are  Weakest----------------------------------------------------------------------🡪strongest  Dispersion forces🡪 🡪 🡪 |

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| Stoichiometry- |  |
| Write the equation below using 1- moles 2- atoms 3-molecules 4- volume  and 5-mass. |  |
| Equation: 2H2(g) + O2(g) 🡪 2H2O(g) |  |
| 1)moles |  |
| 2)atoms |  |
| 3)molecules |  |
| 4)volume |  |
| 5) mass |  |
| The steps for doing a mass-mass stoichiometry question are: |  |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |

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| |  |  | | --- | --- | | 1. **Calculate the mass of carbon dioxide produced by the complete combustion of 692 g of C8H18.** | 2. **In the reaction of silver chloride with zinc nitrate, 15.0 g of silver chloride reacts. How many grams of zinc chloride will form?** | |
| Limiting reagent: |
| Excess reagent: |
| Formula for percent yield: |
| VSEPR(What is it?)-  G. N. Lewis-  Make and fill in a table like you see below |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Formula and name of Shape | #bonding pairs | #lone pairs  (or non-bonding pairs) | Example  (and sketch) | Polarity |
| AX Linear |  |  |  |  |
|  | 2 | 0 | CO2 O=C=O  HCN H-C \* N | nonpolar  polar  **\***Triple bond boooonde |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| AX6 |  |  |  |  |
| AX3 pyramidal |  |  |  |  |
| AX2 v-shaped |  |  |  |  |

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| Do p 248 #65a,c,d,68,69 p 249 #82, p 382 #81, p 375 #32(ans 57.7%) p 380 #52 a (hint: do a mass/mass stoichiometry calculation first, to find mass of SiC produced, then do % calculation ans 96.4 %) |